

## ES and H PROJECT ADS

**ADS #:** A93D0340

**TYPE:** ESH

GROUNDWATER & SURFACE WATER PROTECTION

### WHEN REVISING ADS - ATTACH ADDITIONAL SHEETS AS REQUIRED !!

**PROJECT CHAMPION:** MILLS, J.

**EXT** 4908

**RESPONSIBLE\_DEPT:** EP

**MAIL:** 134C

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**DOE\_MGR:** BOND, J.

**PHONE:** 631-344-3988

#### PROJECT DESCRIPTION:

Summary: This activity will implement modifications to BNL facilities to meet ground and surface water protection compliance requirements consistent with stakeholder and DOE expectations.

In addition, DOE and BNL have entered into an agreement to ensure compliance with the local groundwater protection requirements of Suffolk County Sanitary Code (SCSC) Articles 12 and 7, which are among the most stringent in the nation. BNL and DOE have been sharply criticized by stakeholders, including regulators, elected officials, community members and the media, for not completing all modifications required to protect the groundwater in the more than 10 years since the agreement was made. Although many smaller projects have been completed, this project will address a significant portion of the current backlog by constructing the following modifications to existing BNL facilities:

1. Provide proper closure of inactive supply, injection, and monitoring wells to eliminate conduits for possible contamination of the aquifer,
2. Modify the BNL radioactive material storage yard to prevent leaching of radiological contamination and contaminated storm water run-off,
3. Remove and replace non compliant underground fuel storage tanks and chemical or radwaste storage tanks.
4. Modify miscellaneous BNL facilities to include secondary containment for Suffolk County Sanitary Code Article 12 compliance,
5. Modify the BNL surplus material yard to prevent contaminated storm water run-off, and
6. Replace single-bottom hydraulic elevator cylinders with hydraulic gear propulsion system or double-bottom cylinders and PVC protection to prevent leakage to the environment and possible catastrophic failure.

The DOE commitment to funding and completing these compliance upgrades is essential to assure proper environmental stewardship of BNL and to gain the trust of BNL's stakeholders.

#### PROJECT APPRAISAL / JUSTIFICATION:

Benefits:

- 1) Eliminate potential sources of surface water and groundwater contaminants.
- 2) Improve community trust in BNL environmental protection programs.
- 3) Achieve compliance with CWA, SDWA and Suffolk County Art. 12 requirements.

#### GENERAL INFORMATION:

BHO Comment, 4/93: No appraisal or scoring data provided.

Appraisal text added. Dains, 3/94

Comment by risk ranking committee: Given the seriousness of the compliance and mission impacts, deferring this project to FY2000 (ref cost estimate notes) appears unreasonable. This project should be started much sooner, depending on the SPDES permit schedule. by Dains, 3/11/94

**RPM SCORING:****Before Score - After Score + Mgmt Adjustment = Total Score**

291

2

150

439

**BIN:** 1**BEFORE****AFTER SCORE**

	Consequence x	Multiplier	Probabilit	= Score	Consequence x	Multiplier	Probabilit	= Score
<b>Public S and</b>	30	1.00	1.0000	30	30	1	0.01	0
<b>Site S and H</b>	10	1.00	0.1000	1	10	1	0.01	0
<b>Complianc</b>	150	1.00	1.0000	150	20	1	0.0001	0
<b>Mission</b>	75	1.00	1.0000	75	75	1	0.0001	0
<b>Cost-Effective</b>	15	1.00	1.0000	15	15	1	0.0001	0
<b>Environmenta</b>	20	1.00	1.0000	20	20	1	0.1	2

**FUNDING:** LIE**ACCOUNT#:****ASSET\_NO:** 0900-OSF**COST\_NOTES:**

Estimated, includes BNL indirect and overhead costs.

**Profile In Thousands**

	<b>PY</b>	<b>FY99</b>	<b>FY00</b>	<b>FY01</b>	<b>FY02</b>	<b>FY03</b>	<b>UNFUNDED</b>	<b>TEC</b>
<b>Allocation</b>				1,849	2,758	1,443		
<b>Cost</b>				359	3,751	1,940		6,050

**ESH FUNCTIONAL AREA:**

CW      %: 100      Protection of Water Quality  
%:  
%:  
%:  
%:  
%:

**ESH DRIVER:**

**Primary Driver**  
LAW   CWA

**Secondary Drivers**

REG [OTHER]

Comment by JD, 4/6/94: After review by S. Davis & M. Bebon, this activity's status changed to "Hold". The need for this activity has not been adequately defined and justified as yet.

Deferred to FY2000 start because of funding limitations in MEL-FS Program.

Project validated by M. Schaeffer signed 6/19/97.....TS1 6/20/97

Project validated by R. Lee signed 6/19/97.....TS1 6/23/97

Revised scope per MEL/FS direction 1/99. Removed RHIC/AGS programmatic scope. Added additional tank compliance scope.

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